

The postseismic displacements of the Hyuga-nada earthquakes in 1996

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Co-seismic and post-seismic displacements of the Hyuga-nada earthquakes in 1996 are analysed. We use the GPS data for this analysis. In order to estimate the post-seismic displacements, we use the means of the exponential fitting. From the estimated post-seismic displacements, we obtain the afterslip on the plate boundary, by means of a least square method. We found that relatively large afterslip are occurred after the Hyuga-nada earthquakes. The moment released by the afterslip and the two co-seismic events is amount to 4.6×10^{19} N.m. Taking the relative plate motion in Hyuga-nada region (5cm/yr) into account, the interplate coupling ratio for this region is obtained to be 25%. This result suggests that the interplate coupling in Hyuga-nada is weaker than that in Nankai area.